AMENDMENT TO THE CLAIMS

The following listing of claims will replace all previous listings:

Listing of Claims

1-40. (Cancelled)

41. (Previously presented) A method of determining dosage fill level in a test strip for

performing a measurement on a biological fluid comprising:

providing a biological fluid test strip, comprising:

a capillary fill chamber extending a length along the test strip from an opening to

a terminus, and

at least two pairs of dose sufficiency electrodes in operative communication with

the chamber, each of the pairs of dose sufficiency electrodes positioned to define

a respective gap between one another;

dosing the test strip with a biological fluid effective to cause the biological fluid to begin to

fill the chamber;

applying a test signal to at least one electrode of each of the dose sufficiency electrode pairs;

measuring a respective response to the test signal at each of the dose sufficiency electrode

pairs;

determining the dosage fill level based upon the responses.

42. (Original) The method of claim 41, wherein the test signal is an AC signal.

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Amendment and Response Under 37 CFR § 116(b)(1) Serial No. 10/687,958 Group Art Unit 1795 43. (Original) The method of claim 41, wherein the response comprises magnitude and phase

angle information.

44. (Original) The method of claim 41, wherein the response comprises an admittance value.

45. (Previously presented) A method of determining a fill level of a biological fluid in a test strip

for performing a measurement on the fluid comprising:

providing a test strip, comprising:

a fluid flow intake opening;

a fluid flow terminus;

at least two measurement electrodes disposed on the test strip between the

opening to the terminus; and

at least two pairs of dose sufficiency electrodes positioned between the

measurement electrodes and the terminus, each of the pairs of dose sufficiency

electrodes defining a respective gap between one another;

introducing the biological fluid to the opening effective to cause the fluid to flow toward the

terminus;

applying a test signal to at least one electrode of each of the dose sufficiency electrode pairs;

and

measuring a respective response to the test signal at each of the dose sufficiency electrode

pairs;

determining the fill level of the biological fluid based upon the responses.

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47. (Original) The method of claim 45, wherein the response comprises magnitude and phase

angle information.

48. (Original) The method of claim 45, wherein the response comprises an admittance value.

49. (Previously presented) A method of determining dosage fill rate in a biological fluid test strip

comprising:

providing a biological fluid test strip, comprising:

a capillary fill chamber extending a length along the test strip from an opening to

a terminus.

and at least two dose sufficiency electrodes in operative communication with the

chamber, the dose sufficiency electrodes positioned to define a gap between one

another;

dosing the test strip with a biological fluid effective to cause the biological fluid to begin to

fill the chamber:

applying a test signal having an AC component to at least one of the dose sufficiency

electrodes;

measuring a first response to the test signal at a first time;

measuring a second response to the test signal at a second time; and

determining a rate at which the biological fluid fills the chamber based at least in part upon

the first response and the second response.

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7404-557:TJC:530622 RDID-9504-3US-WP 22076 US2 50. (Original) The method of claim 49, wherein the test signal is an AC signal.

51. (Previously presented) The method of claim 49, wherein the first and second responses

comprise magnitude and phase angle information.

52. (Previously presented) The method of claim 49, wherein the first and second responses

comprise an admittance value.

53. (Original) The method of claim 49 further comprising recording the first response and the

second response.

54. (Previously presented) A method of determining dosage fill rate in a biological fluid test strip

comprising:

providing a biological fluid test strip, comprising:

a fluid flow intake opening;

a fluid flow terminus:

a measurement zone positioned between the opening and the terminus,

and at least two dose sufficiency electrodes positioned between the measurement zone and

the terminus, the dose sufficiency electrodes positioned to define a gap between one another;

dosing the test strip with a biological fluid effective to cause the biological fluid to begin to

flow from the opening toward the terminus;

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applying a test signal having an AC component to at least one of the dose sufficiency

electrodes;

measuring a first response to the test signal at a first time;

measuring a second response to the test signal at a second time; and

determining a rate at which the biological fluid fills the chamber based at least in part upon

the first response and the second response.

55. (Original) The method of claim 54, further comprising:

a capillary fill chamber extending a length along the test strip from the opening to the

terminus.

56. (Original) The method of claim 55, wherein the test signal is an AC signal.

57. (Previously presented) The method of claim 55, wherein the first and second responses

comprise magnitude and phase angle information.

58. (Previously presented) The method of claim 55, wherein the first and second responses

comprise an admittance value.

59. (Original) The method of claim 55 further comprising recording the first response and the

second response.

60-65. (Cancelled)

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